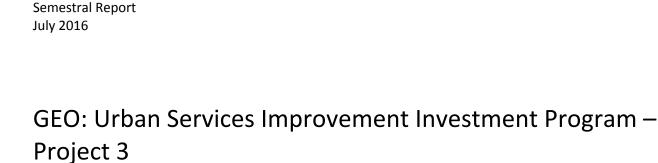
Environmental Monitoring Report



Prepared by United Water Supply Company of Georgia, LLC, Government of Georgia for the Asian Development Bank.

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

BI-ANNUAL ENVIRONMENTAL MONITORING REPORT

Project Number: 43405-025

January-June 2016

Loan Number 3078-GEO (SF)

GEORGIA: URBAN SERVICES IMPROVEMENT INVESTMENT PROGRAM (TRANCHE 3)
(FINANCED BY THE ASIAN DEVELOPMENT BANK)

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For: The Ministry of Regional Development and Infrastructure of Georgia and the Asian Development Bank

Endorsed by: Maka Goderdzishvili, Head of Division of Resettlement and Environment Protection

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ABBREVIATIONS

ADB Asian Development Bank

DC Design Consultant

DREP Division of Resettlement and Environmental Protection

EA Executing Agency

EARF Environmental Assessment and Review Framework

EHS Environmental Health & Safety

EIA Environmental Impact Assessment

EIP Environmental Impact Permit

Environnemental Management Plan/ Site-Specific Environmental Management Plan

SSEMP

ES/ SES Environmental Specialist/ Senior Environmental Specialist

GoG Government of Georgia

GRC Grievance Redress Committee
GRM Grievance Redress Mechanism

USIIP Urban Sector Improvement Investment Program

IA Implementing Agency

IEE Initial Environmental Examination

MFF Multi-tranche Financing Facility

MoENRP Ministry of Environment and Natural Resources Protection

MoRDI Ministry of Regional Development & Infrastructure

NEA National Environmental Agency

SC Supervision Consultant

UWSCG United Water Supply Company of Georgia

WSS Water Supply & Sewerage

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PART I – INTRODUCTION

1.1 Construction activities and project progress during the previous 6 months

A. General information about the program/subprojects

- 1. The present Bi-annual Environmental Monitoring Report covers January-June 2016 time period.
- 2. The Urban Services Improvement Investment Program was developed as the Government's response to the lack of adequate and/or safe water supply, sewerage and sanitation in urban areas of Georgia. This is intended to optimize social and economic development in selected urban areas through improved urban water and sanitation services, and is financed by the ADB through its Multi-tranche Financing Facility. The Ministry of Regional Development and Infrastructure is the Executing Agency and the United Water Supply Company of Georgia, LLC is the Implementing Agency of the Investment Program. UWSCG is a 100% state-owned company.
- 3. The Investment Program will improve infrastructure through the development, design and implementation of a series of subprojects, each providing improvements in a particular sector (water supply and/or sewerage) in one town. Subprojects will rehabilitate existing infrastructure and/or create new and expanded infrastructure to meet the present and future demand. Water supply improvements will include source augmentation and head works, pumping systems, treatment facilities, transmission and distribution network; and, sewerage improvement works will include sewer network, pumping stations, main collectors and waste water treatment plants.
- 4. The Investment Program will improve the health of residents in the urban centers of Mestia, Anaklia, Kutaisi, Poti, Ureki, Zugdidi and Marneuli. The outcome of the Investment Program is improved WSS services in these urban centers.
- 5. Tranche 3 of the Investment Program includes:
 - Construction of Water Supply and Wastewater Network in Ureki / Phase 3 (URE-01);
 - Construction of Wastewater Treatment Plant in Ureki (URE-02);
 - Construction and Rehabilitation of Water Supply System in Kutaisi / Phase 2 (KUT-01)

The following projects are financed under Tranche 3:

- 6. Construction of Water Supply and Wastewater Network in Ureki / Phase 3 (URE-01). The project comprises of the construction of 1 water supply pumping station and 31 sewage pumping stations (Shekvetili 18, Ureki 13; construction of new reservoirs (2,000 m³ x 3,000 m³ and 1 x 1,200 m³); Distribution network laying of approximately 70 km water supply pipelines (distribution network will be devided into 3 areas), laying of approximately 70 km sewage pipelines; installation of approximately 1,500 watermeters; Wells drilling of 10 drinking water wells.
- 7. Construction of Wastewater Treatment Plant in Ureki (URE-02). The project comprises of the construction of new Wastewater Treatment Plant with the capacity of 6,570 m³/day.
- 8. Construction and Rehabilitation of Water Supply System in Kutaisi / Phase 2 (KUT-01). The project envisages construction of Kvitiri 973 m³/h capacity and Mukhrani 660 m³/h capacity pumping stations; Reservoirs construction of Near East and Mukhrani reservoirs with the capacity of 9,000 m³ (2x4,000+1,000). Distribution network 332.1 km.

B. Construction activities implemented during the reporting period (January-June 2016)

Construction activities and project progress during the reporting period (January-June 2016)

Table 1: project progress during the previous 6 months

KUT-01

Site	Water network
Works undertaken	PE 100-pipes OD 25 - 4.38%
during Jan-June 2016	PE 100-pipes OD 50 - 14.51%
	PE 100-pipes OD 63 - 41.33%
	PE 100-pipes OD 75 - 28.74%
	PE 100-pipes OD 90 - 52.87%
	PE 100-pipes OD 110 - 29.20%
	PE 100-pipes OD 125 - 67.27%
	PE 100-pipes OD 140 - 40.79%
	PE 100-pipes OD 160 - 58.23%
	PE 100-pipes OD 180 - 10.27%
	PE 100-pipes OD 200 - 9.98%
	PE 100-pipes OD 225 - 24.56%
	PE 100-pipes OD 250 - 75.10%
	PE 100-pipes OD 280 - 13.57%
	PE 100-pipes OD 315 - 79.48%
	PE 100-pipes OD 355 - 78.60%
	PE 100-pipes OD 400 - 49.14%

URE-02

Site	Effluent Pipe
Works undertaken	1000m effluent piping
during Jan-June	Construction of WWTP
2016	Construction of WWTP-10% (Administrative Building, AST, FST)

URE-01

Site	Water mains installation
Works undertaken	2.410 km of PE 100 pipes OD 710, SDR 11 installed – 16.5%
during Jan-June 2016	Water network
	1.933 km of HDPE pipes DN 25-560 – 4%

1.2 Changes in Project Organization and Environmental Management Team

Agencies Involved in Investment Program Implementation

- 9. The following agencies are involved in implementing the Investment program: Ministry of Regional Development and Infrastructure (MoRDI) is the Executing Agency (EA) responsible for management, coordination and execution of all activities funded under the loan. MoRDI has overall responsibility for compliance with loan covenants.
- 10. United Water Supply Company of Georgia (UWSCG) is the implementing agency (IA), which is responsible for administration, implementation (design, construction and operation) and all day-to-day activities under the loan. An Investment Program Management Office (IPMO), which is the Donor Relations Department is established within the UWSCG for all Investment Program related functions. The IPMO coordinates construction of subprojects, and ensures consistency of approach and performance.
- 11. UWSCG as responsible IA for the project recruited a Supervision Consultant (SC) Eptisa. The national and international team of consultants assists UWSCG in the supervision of the construction of subprojects under the USIIP. The SC also provides capacity building training to contractor staff in the management and operation and maintenance of the subprojects. The SC assists UWSCG in ensuring that the subprojects are implemented according to the specified standards. SC assignment also includes the supervising of the implementation of the environmental management plans.
- 12. All mitigation measures during construction have to be implemented by the contractor and these are monitored by the supervision consultant (SC). To ensure the smooth implementation of EMPs and SEMPs of subprojects, an Environmental Management Specialist (EMS) is employed by the SC/Eptisa. SC/EMS conducts routine observations and surveys, prepares quarterly environmental reports and submits these to UWSCG.
- **13.** The Contractor has the following obligations:
 - to prepare SSEMPs:
 - to employ Environmental Consultant responsible for developing and implementing the construction phase SSEMPs and for providing the corresponding information to UWSCG and SC;
 - to develop, if required, a Spoil Disposal Plan and Construction Waste Management Plan
- **14.** DC is responsible for developing and incorporation of mitigation measures in design and construction.
- 15. The environmental specialist (ES) is hired by UWSCG under the USIIP to assist and advise the Resettlement and Environmental Protection Unit (UREP) of UWSCG in USIIP program implementation in compliance with the ADB Safeguard Policy Statement 2009 and National Legislation, and oversee the work of DCs and SCs in safeguards compliance. ES supports UREP in EARF implementation, in particular, reviewing IEE/EIA Reports and overseeing implementation of EMP/SSEMPs and in training and capacity-building activities. The ES prepares bi-annual and annual environmental monitoring reports and submits to ADB.
- 16. UREP is responsible for the implementation of mitigation and monitoring measures during construction and operation of subprojects under USIIP. Currently UREP is staffed with a Head of Division, who is responsible for both resettlement and environmental issues, and two Resettlement Specialists.
- 17. ADB is the donor financing the Investment Program. Environmental management organization is shown in Figure 1 and Figure 2.

PROJECT
MANAGEMENT
UNIT

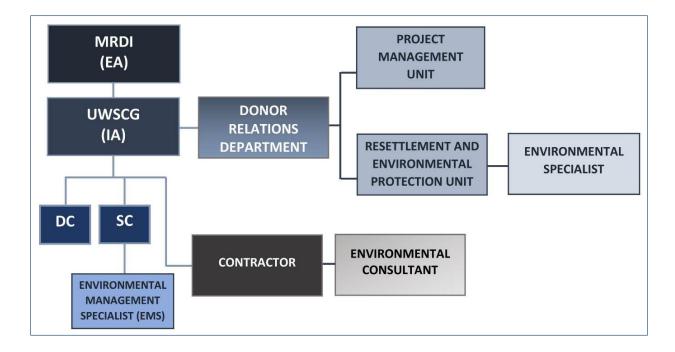
UWSCG
DIRECTOR

DONOR
RELATIONS
DEPARTMENT

RESETTLEMENT AND
ENVIRONMENTAL
SPECIALIST
PROTECTION UNIT

Figure 1: Structure Diagram of the Environmental Management Unit of UWSCG

Figure 2: Structure Diagram of the Agencies Involved in Investment Program Implementation



1.3 Relationships with Contractors, Owner, Lender, etc

- **18.** Relationships with Contractors, as normal working relationships. At the working level, coordination of environmental issues has been satisfactory, the government agencies, UWSCG, consultants and contractors are in frequent communication and consultation.
- 19. Ministry of Regional Development and Infrastructure (MoRDI) is the Executing Agency (EA) responsible for oversee progress and provide guidance on the Investment Program implementation; convene regular meetings in consultation with the SC Chairperson and UWSCG; ensure compliance with Investment Program covenants.
- **20.** Oversight of the USIIP with regards to environmental management is the responsibility of the environmental safeguards team, in particular UWSCG/DREP and the Environmental Specialist of USIIP.

- **21.** The team has constant communication with the Supervision Consultant, Contractor, reviews/ comments all environmental reports submitted by DC, SC and contractors.
- 22. In fact the SSEMPs has been approved by UWSCG/UREP after the numerous discussions with the contractor until the specific situations of the site as well as mitigation measures under the site specific management plans are reflected.
- 23. SC is responsible for environmental capacity building, monitoring of implementation of SEMPs and for developing quarterly reports. The Contractor has a full time Environmental Specialist who carries out day to day monitoring as submits a monthly progress reports.
- **24.** ADB oversees project sites regularly and gives clear instructions for the project sites improvements with regard to environmental safeguards.
- 25. To resolve the observed environmental safeguard issues, the regular Environmental Meetings are organized with participation of UWSCG/IPMO/UREP, Eptisa, Contractors. During the meetings environmental issues and implementation of the mitigation measures are discussed.
- 26. A Grievance Redress Committee has been established within REG-01 in Kutaisi that will functional for KUT-01 project as well. GRM was established for URE-01 and URE-02 projects within the reporting period as well.
- 27. Contractor of KUT-01 project operated during the reporting period with the following subcontractor:
 - LTD "Mshenebeli Service Center"
 - KBY Uluslararasi Insaat Ltd.Sti.
 - LTD "New Vagy"
 - LTD "GES"
 - LLC "OES"
 - LLC "Gzamgebi"
- 28. Below are the list of permits and subcontractors of "SMK Ulusal Insaat Ve Ticaret A.S. (Turkey)"under the Kut-01project
 - Kutaisi Municipality contract was signed for disposal of Municipal Waste from project sites to the Kutaisi landfill
 - Permit issued to SMK by the Ministry of Environment and Natural Resources
 Protection of Georgia (Decree #i-902) on Construction and Exploitation of the
 Asphalt plant
 - License issued to SMK by the National Environmental Agency of the MoENRP for mineral extraction (gravel, ballast)
- 29. Below are the list of subcontractors of PERI Ltd (Ure-01 project) for Disposal of Municipal Waste and extraction of minerals (gravel, ballast, etc)
 - Ureki Municipality contract was signed for disposal of Municipal Waste from Ureki WWTP site to the Ureki landfill
 - License issued to Ltd Peri by the MoENRP for mineral extraction (gravel, ballast) on the basis of the purchase agreement signed between the Ltd "Peri" and Ltd "Anagi".
- **30.** Below are the list of subcontractors of Pfeiffer (Ure-02 project) for Disposal of Municipal Waste and extraction of minerals (gravel, ballast, etc)
 - Ozurgeti Municipality contract was signed for disposal of Municipal Waste from Ureki WWTP site to the Ozurgeti landfill
 - Ltd "Imobiliary" contract was signed for disposal of hazardous waste
 - Georgian Solid Waste management Company for disposal of Solid Waste.

31. Project organization for the awarded contracts listed above is given in the table below:

Table 2: List of contracts under T3

Contract #	Employer	Contractor	Contract Signature date	Contract Final Date
Contract No: P43405-ICB- KUT-01	UWSCG	SMK Ulusal Insaat Ve Ticaret A.S. (Turkey)	22-Apr-15	8-Jun-18
Contract No: P43405-ICB-URE- 02	UWSCG	JV of Ludwig Pfeiffer Hoch-und Tiefbau GmbH and Co.KG ProtechnoSrl (Germany) / Aritim (Turkey)	30-Apr-15	9-Jun-17
Contract No: P43405-ICB-URE- 01	UWSCG	JV of Peri Ltd (Georgia) Leading Partner and Slon LLC (Azerbaijan)	28-Oct-14	22-Nov-17

PART II ENVIRONMENTAL MONITORING

- 32. Individual and joint on-site monitoring activities were conducted by Environmental Monitoring Specialist of SC and Environmental Specialist of UREP under USIIP on a regular basis, during the period January-June 2016. Unscheduled monitoring visits were carried out and non-compliance notes has been issued to the contractor as needed. Mitigation measures to reduce major environmental impacts have been instructed to contractors during the monitoring visits.
- **33.** The monitoring activities included:
 - The monitoring of compliance of construction activities under KUT-01 project sites to the overall project EMP/SSEMP;
 - The monitoring of compliance of construction activities under the Ure-01 project sites to the overall project EMP/SSEMP;
 - The monitoring of compliance of construction activities under the Ure-02 project sites to the overall project EMP/SSEMP;
- **34.** Environmental Monitoring Specialist hired under the KUT-01, URE-01 and URE-02 subprojects conducted the day-to-day monitoring of the construction sites, developed the monthly monitoring reports and submitted to SC/Eptisa.
- **35.** Environmental Monitoring Specialist of SC/Eptisa developed quarterly monitoring reports for UWSCG/UREP based on the monthly reports submitted by Contractor and based on environmental site inspection.
- 36. Environmental Specialist of USIIP performed monitoring of contractor's performance with the approved EMPs/SSEMPs, environmental standards and other environmental commitments of the contractor. ES developed bi-annual environmental monitoring reports and submitted to ADB based on the quarterly reports prepared by SC and monitoring results.

- 37. The USIIP's Environmental Impact Monitoring and Mitigation is carried out in accordance with the updated EMPs and Site-Specific Environmental Management Plans (SSEMPs) prepared by the Contractors. The construction activities affecting the environment are as follows:
 - Excavation works
 - · Removal of soil
 - · Removal of vegetation
 - · Backfilling of trenches
 - Reinstatement activities
- **38.** The following items are monitored during the implementation of the project: (Kut-01 and Ure-01 and Ure-02).
 - Air Quality
 - Noise
 - Vibration
 - Top Soil Stripping
- 39. There are no protected areas, wetlands, mangroves, or estuaries. Trees, vegetation (mostly shrubs and grasses), and animals in the subproject sites are those commonly found in built-up areas. The geological structure of the area is stable and no potential land subsidence is foreseen.

D. Monitoring Measurement Data

- **40.** Environmental monitoring of dust, air condition, noise and vibration is performed as indicated in the relevant EMPs/SSEMPs (on the bi-annual basis).
- 41. In order to conduct measurements under the Kut-01 project, Contract was signed between the Contractor and the Ltd "Eco-Spectri". Monitoring measurements under Ure-01 and Ure-02 projects were conducted by the National Environmental Agency. All above mentioned measurements were carried out in June 2016 at various construction sites in Kutaisi and Ureki.
- **42.** The parameters measured for the monitoring data at the construction sites are as follows: dust, carbon monoxide, nitrogen dioxide, sulfur dioxide, vibration and noise.
- **43.** The National Environmental Standard (Maximum Permissible Level) for Noise level is regulated by the Decree No. 297/N "On Approval of Environmental Quality Norms" (August 16, 2001 of the Ministry of Labor, Health and Social Affairs).
- **44.** Noise impacts should not exceed the levels presented in Table 3, or result in a maximum increase in background levels of 3 dB at the nearest receptor location off-site.

Table 3: Noise Level Guidelines

Noise	dB			
Receptor	Daytime 07:00 - 22:00	Nighttime 22:00 - 07:00		
Residential; institutional; educational	55	45		
Industrial; commercial	70	70		

45. Location and data of measured parameters are provided in Annex A. The next monitoring measurements will be conducted in September 2016 and results will be reflected in the next EMRs as it defines in EMP/SSEMP.

Table 4: Monitoring measurements under KUT-01, URE-02 and URE-01 **Kut-01**

Place of Measurement	Coordinates	Dust Mg/r		CO Mg/n	1 ³	NO ₂ Mg/1		SO ₂ Mg/m	3	Noise db		Radiati Mr/h	ion	Vibro accele m/sec	eration	
			Standard	Result	Standard	Result	Standard	Result	Standard	Result	Standard	Result	Standard	Result	Standard	Result
Muxrani Reservoir	42º13i46.04iiN 42º41i11.57iiE	0.5	≥ 0.1	5.0	0,3	0.2	≥ 0.01	0.5	0.1	72	52	30	12	4.0	0.04	
Agmashenebeli Street	42º15 ⁱ 40.09 ⁱⁱ N 42º41 ⁱ 32.21 ⁱⁱ E		≥ 0.1		0.3		0.02		0.3		68		12		2.24	
Tavisuplebis IV Turn	42°15'49.90"N 42°41'04.881'E		≥ 0.1		0.9		0.03		0.3		65		13		3.44	
Nafetvaridze street	42º15 ⁱ 36.96 ⁱⁱ N 42º41 ⁱ 05.17 ¹¹ E		≥ 0.1		0.5		0.02		0.2		68		12		3.37	
Nutssubidee street	42°15'37.43"N 42°41'42.62"E		≥ 0.1		0.9		0.02		0.3		70		12		3.46	

URE-02

N	Place of	Coordinates	Results					
	measurement		Dusts	CO	NO2	SO2	Noise	
			Mg/m3	Mg/m3	Mg/m3	Mg/m3	db	
	National Environmental Standard (Maximum Permissible Level)		0,5	5,0	0,2	0,5	70	
1.	Ureki, WWTP construction site	X 0730237 Y 4650518	0.048	0.45	0,009	<0,1	63,7	

URE-01

Samplin place		Noise			Concentratio	on mg/m ³		
coordinates	Sample N	DB	Saturated hydrocarbons	Carbon oxide CO	Nitrogen dioxide NO ₂	Dust	Sulfur dioxide SO ₂	Hydrogen sulfide H ₂ S
Tsvermagala	1	40,1	0	0,11	<0,001	0,002	<0,1	<0,1
X 0730415	2	41,3	0	0,22	<0,001	0,004	<0,1	<0,1
Y 4649265	3	41,2	0	0,22	<0,001	0,006	<0,1	<0,1
	4	39,7	0	0,08	<0,001	0,001	<0,1	<0,1
Ureki	1	48,2	0	0,31	<0,001	0,032	<0,1	<0,1
X 729069 Y 4652470	2	64,2	1	1,28	0,005	0,248	<0,1	<0,1
	3	63,7	1	1,29	0,007	0,201	<0,1	<0,1
	4	64,4	1	1,2	0,004	0,194	<0,1	<0,1
Ureki	1	47,3	0	0,12	0,001	0,003	<0,1	<0,1
(Beside five-story	2	50,1	1	1,18	0,002	0,027	<0,1	<0,1
building)	3	58,0	1	1,29	0,008	0,021	<0,1	<0,1
X 730159 Y 4652634	4	46,4	0	0,8	0,001	0,02	<0,1	<0,1
Natanebi	1	48,6	0	0,22	0,001	0,007	<0,1	<0,1
X 730195	2	69,3	1	0,94	0,012	0,128	<0,1	<0,1
Y 4648085	3	67,0	1	1,02	0,007	0,157	<0,1	<0,1
	4	60,1	1	0,77	0,004	0,094	<0,1	<0,1

46. According to data received in June 2016 the obtained results did not exceed the National Environmental Standard (Maximum Permissible Level) of Dust, CO, NO2, SO2 and Noise, therefore no additional mitigations are required. All measurement were carried out at day tile (15:00 – 17:00pm).

PART III - ENVIRONMENTAL MANAGEMENT

3.1 The Environmental Management System, Site-specific Environmental Management Plan (SSEMP), and Work Plans

SSEMPs prepared under URE-01, URE-02 and KUT-01 projects (January-June 2016)

- **47.** SSEMP for Reservoir #2 (Ure-01) and pumping station is already prepared by Contractor, endorsed by the SC and approved by UWSCG. SSEMP for Reservoir #1 (Ure-01) will be updated as soon as final design developed and location identified.
- **48.** SSEMP for Ure-02 project (WWTP construction site) is prepared by Contractor, endorsed by SC/Eptisa and approved by the UWSCG.
- 49. Separate SSEMPs for Godogani and Mukhrani reservoirs are prepared under the Kut-01 project. SSEMP for Godigani reservoir is prepared by Contractor and currently is sent to SC/Eptisa for endorsement. Final approval will be done by UWSCG. SSEMP for Mukhrani reservoir and pumping station is already prepared by contractor, endorsed by SC/Eptisa and approved by UWSCG on 30 March 2016.
- **50.** Status of Environmental management plans is summarized in the table below:

 Table 5: Status of Environmental management plans

Management Plan	Status	Date of Submission
Site-Specific Environmental Management Plan (SSEMP) under Ure-02 project for WWTP	Submitted and approved	November 2015
Environmental Management Plan/Site- Specific EMP (SSEMP) under KUT-01 project, in particular: Godogani Reservoir	Not prepared as yet	Is prepared by Contractor and sent to SC/Eptisa for endorsement
Mukhrani Reservoir and Pumping station	Submitted and approved	30 March 2016
Waste management plan for construction phase	Not submitted	To be developed and submitted by the end of
Kutaisi KUT-01		December 2016
Environmental Management Plan/Site- Specific EMP (SSEMP) under Ure-01 project		
Reservoir #2 Pumping station	Submitted, and approved by UWSCG	10.08.2015

Reservoir #1		
Ureki well fields	Not submitted as yet	SSEMP for Reservoir #1 will be updated after the final location and design is developed and approved
	Submitted, and approved by UWSCG	June 2016
Waste management plan for construction phase	Not Submitted	To be developed and submitted by the end of 2016
Under Ure-01 project		2010
Environmental Management Plan/Site- Specific EMP (SSEMP) under Ure-02 project	Submitted, and approved by UWSCG	SSEMP for Ureki WWTP was prepared in October 2015
WWTP site		
Waste management plan for construction phase	Not Submitted	To be developed and submitted by the end of
Under Ure-02 project		2016

3.2 Site Inspections and Audit

- 51. Regular site monitoring visits were carried out during the reporting period by Eptisa and UWSCG for REG-01 projects. Some monitoring visits were conducted jointly by the SC/EMS and ES of USIIP. During the field visits a number of EHS issues were noted and brought to the attention of the Environmental Consultant and the H&S manager of Kut-01 and Ure-01project. Mitigation measures were then discussed with the contractor on-site and detailed instructions were given. Good Practice in compliance with Georgian and international H&S legislation were therefore enforced in accordance with the legislation and the Contractor's contract for Kut-01 and Ure-01projects.
- **52.** Site inspection and audit during the reporting period have been carried out on: 22 February, 26-28 February, 9-11 March, 12-13 April and 20-22 April and 7-8 June of 2016. Non-compliance notes issued during the site visits are presented in Annex C.
- 53. The contractors were always informed on the detected non-compliances and were demanded to improve on the deadline set and send photos of improvements made together with the corrective action plans. Environmental team of Eptisa and UWSCG monitored the improvements during the next monitoring visits. Unimproved environmental issues were qualified as non-compliances and notices issued to contractor (Annex C).
- **54.** A summary of the identified issues during the site monitoring by EMS/SC and USIIP ES, recommended mitigations and the status of implementation is presented in Annex D.

3.3 Non-Compliance Notices

Kut-01, Ure-02 and Ure-01 projects

55. All corrective actions requested after the Monitoring of sites were mostly improved by contractor; however, there were some environmental issues that were not addressed adequately. During the course of the construction supervision in the previous six months of the works, two "Non-compliance notices" were issued by the environmental specialists of

- Eptisa and UWSCG to the contractor for Kut-01, one non-compliance notice for Ure-01 projects and one non-compliance notice for Ure-02 project (See Annex C).
- **56.** It should be mentioned that all permits, licenses and agreements are on place and available at camp site.

3.4 Corrective Action Plans

57. For the purpose of resolving the observed issues, the corrective action plans have been developed by the contractor. The regular Environmental Meetings were also carried out with the participation of UWSCG/IPMO/UREP, Eptisa, contractors. During the meetings environmental issues and implementation of the mitigation measures were discussed. Agreements were reached that contractors should respond to the findings of the compliance monitoring carried out by SC and UWSCG.

Table 6: Actions taken for implementation of mitigation measures under Kut-01 and Ure-01 projects by the end of June 2016

Ure-01

Construction Site	Environmental Issues	Action taken
Ure-01		
Ureki/Network	Construction materials should be brought when needed to avoid its long time disposal of pipes in the streets	Not completed
	Tarpaulins cover during materials transportation should be used	Partially Completed
	Materials for refilling of tranches should be brought to the site when refilling is to start	Partially Completed

Kut-01

Construction Site	Environmental Issues	Action taken
Kut-01		
	Install safety signs, tapes around to all open tranches and flagmen should be allocated for traffic control	Partially Completed
	In case of manual operation by men force, tranches with deep excavation (>1.5m) should be stabilized to avoid accidents during construction process	Partially Completed
	All construction materials should be properly segregated and stored adequately to avoid disturbance of residents and businesses (waste and some construction materials should be removed from gates of residential houses)	Partially Completed
	Noise and Dust emission should be managed and mitigated adequately (including instrumental measurement)	Partially Completed
	Install safety signs, tapes around to all open tranches and flagmen should be allocated for traffic control	Partially Completed
	In case of manual operation by men force, tranches with deep excavation (>1.5m) should be stabilized to avoid accidents during construction process	Partially Completed

Mukhrani Reservoir	
Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil should be taken away for its final disposal (in agreement with municipality). Also it should be noted that temporary stockpiling of surplus/waste soil out of construction site boundaries needs agreement with municipality	Not Completed
The pile of topsoil should be stored properly inside the construction territory (on the territory indicated in site plan) with further maintenance procedures i.e. regular watering	Not Completed
Site trees should be properly protected with dedicated fencing to avoid its damage	Partially Completed
The access road should be arranged properly and covered by gravel	Not Completed
Relevant and enough warning/safety and information signs should be installed at the entrance and perimeter of the site	Completed
Safety signs/tapes and trench side barriers around of ditch of reservoir should be installed	Completed
All construction materials should be properly segregated and stored adequately at the site	Partially Completed
Parking area with relevant sign should be arranged in accordance with the site plan	Partially Completed
Proper Household and Hazardous Waste containers should be installed with relevant signs	Completed
Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site	Partially Completed
All workers (even personnel of subcontractor) should be equipped with complete PPE	Partially Completed
Site internally should be arranged properly and cleaned regularly	Partially Completed

Ure-02

Construction Site	Environmental Issues	Action taken
Ure-02		
	Construction area should be fenced from all sides, since there are cases of cattle entering the site	Completed
	Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil (that seems huge amount) should be taken away for its final disposal (in agreement with municipality)	Partially completed
	Permanent on-site Environmental specialist of contractor should be appointed	Completed
	The pile of topsoil should be watered regularly	Not Completed
	Relevant information signs should be installed inside of the site for each facility	Completed
	Safety signs/tapes and relevant trench side barriers around of deep ditch should be installed	Completed
	Tarpaulins cover during materials transportation should be used always	Partially Completed

All construction materials should be segregated and stored adequately	properly Completed
Proper place for Parking with relevant sign be allocated and arranged. Current alloc NOT relevant and enough for serving of all v	ation is
Fuel/lubricant containers should be stored in special place with roofing and concrete place.	
All equipment & vehicles used for consactivity should be in good condition (non-and well maintained. Old bulldozer operatin site should be monitored routinely and driver for first response in case of oil spill	leaking) g at the

3.5 Actions taken to reflect the findings of ADB mission carried out on 20-22 April 2016

Table 7: Status of findings of ADB mission carried out on 20-22 April 2016

Project	Specific Issues	Deadline for submission/Imple mentation	Implementation Status				
Construction	n and Rehabilitation of Water Supply Sys	tem in Kutaisi / Phas	e 2 (KUT-01) – USIIP, T3				
Kut-01	Rehabilitation activities of water supply pipes are on-going in Kutaisi. Construction of reservoirs in Mukhrani and Godogani has not been started yet.		SSEMP for Construction of Mukhrani Pumping Station and Reservoir was prepared on 30 March and approved by SC and PIU.				
	SSEMP for Godogani reservoir is under preparation	May 2016	SSEMP for Godogani is under preparation.				
Construction	n of Wastewater Treatment Plant in Ureki	(URE-02) – USIIP,	ТЗ				
Ure-02	There is a mobilization stage on the construction site. All requested documents including contracts and licenses were kept on site. Baseline measurements for air, water, noise were performed on 19 February 2016 by the CC. Monitoring will be performed quarterly	Measurement data will be provided in May 2016.	Monitoring measurements were performed by contractor in June 2016 and provided in proposed EMR.				
Construction of Water Supply and Wastewater Network in Ureki / Phase 3 – USIIP, T3							
Ure-01	SSEMPs for reservoir #1, as well as for well fields are under preparation and will be submitted in May 2016.	May 2016	SSEMPS for well fields have been developed by Contractor/Peri endorsed by SC/Eptisa and approved by UWSCG in June 2016.				

	But due to the fact that Location and design for Res-#1 is changed now the new SSEMP will be prepared as soon as design is completed.
--	---

Actions taken regarding the action plan of the EMR January-June 2016:

Action Plan for the next period

- **58.** SSEMP for Res-01 will be updated as soon as final design is prepared. Currently the construction of Res#3 is under discussion. SSEMP for Res-03 will be prepared as soon as final decision is made by UWSCG and SC/Eptisa (August-September 2016).
- **59.** SSEMPs for Ureki well fields are prepared by Contractor/Peri, endorsed by SC/Eptisa and approved by UWSCG on June 2016.
- **60.** SSEMP for Mukhrani Reservoir (Kut-01) was developed by contractor/SMK, endorsed by SC/Eptisa and approved by UWSCG on 30 March 2016. SSEMP for Godogani Reservoir is prepared by contractor and sent to SC/Eptisa for endorsement. SSEMP will be sent to UWSCG for final approval.
- **61.** Monitoring of environmental quality under Kut-01, Ure-02 and Ure-01 projects were conducted in June 2016 with particular reference to dust, air quality, vibration and noise.

3.6 Consultations and Complaints

- **62.** During the reporting period the 2nd phase of door to door activities continued to cover the new streets of apartment buildings where water meter installation was planned. 2500 brochures were distributed among the population of Nikea Street to raise the awareness of households about the project, its timelines and results as well as grievance commission and importance of safe water supply and wise water consumption. In addition special posters with the information about the project and grievance commission were placed at the entrance of each apartment building visible for every household.
- **63.** Eptisa PA consultants updated the information brochure for the 2nd phase to reflect the changes in the project including updated Frequently Asked Questions (FAQ) section of the brochure. In collaboration with the UWSCG PR specialist 5000 copies of the new brochure were printed for further distribution.
- 64. Before commence of the door to door campaign Eptisa local public awareness specialist holds regular meetings with the effected households living near the rehabilitation sites and distributes information about the project. In case of some challenges and problems she tries to act as a liaison and supply households with relevant information or connect them with relevant parties who can explain the situation would that be the construction company, local authorities, UWSCG local office or others.

Grievance redresses mechanism (GRM)

65. For the effective implementation of a GRM system under the USIIP, UWSCG issued special order (#122) on 30 April 2014. The "Establishment of GRM within the Framework of the Asian Development Bank Funded Projects" signed by the head of UWSCG gives clear instructions to every involved stakeholder how to act when affected people are impacted by the project. Detailed procedures for GRM System are provided in Annex E. No complaints have been received under Kut-01, Ure-01 and Ure-02 projects.

PART IV - CONCLUSIONS AND ACTION PLAN FOR THE NEXT PERIOD

4.1 Conclusions and recommendations

- **66.** As presented in this report, Tranche-3 of this Investment Program is being implemented in compliance with the ADB Safeguards Policy Statement, 2009, National Legislation and overall EARF.
- **67.** Necessary instructions have been given to the Contractor by UWSCG and SC to follow the EMP's and SSEMP's requirements for Kut-01, Ure-01 and Ure-02 projects.
- **68.** More detailed recommendations are with indication of the entities responsible for their implementation are provided in the table below:

Table 8: Recommendations to address Environmental Issues

Recommendations KUT-01 Kutaisi: Networks and Mukhrani Reservoir	Responsible Party
Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil should be taken away for its final disposal (in agreement with municipality).	Contractor
The pile of topsoil should be stored properly inside the construction territory (on the territory indicated in site plan) with further maintenance procedures i.e. regular watering	Contractor
The access road to the Mukhrani reservoir should be arranged properly and covered by gravel	Contractor
Materials for refilling of tranches should be brought to the site when refilling is to start	Contractor
Always use tarpaulins to cover during materials transportation	Contractor
Ure-01	
Construction materials should be brought when needed to avoid its long time disposal in the streets	Contractor
All open tranches should be fenced with safety lines to avoid accident	Contractor
Construction materials should be brought when needed to avoid its long time disposal in the streets	Contractor
Ure-02	
Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil (that seems huge amount) should be taken away for its final disposal (in agreement with municipality)	Contractor
The pile of topsoil should be watered regularly	Contractor
Relevant information signs should be installed inside of the site for each facility	Contractor

4.2 Action Plan for the next period

- **69.** Implement Tranche-3 in compliance with the ADB Safeguards Policy Statement, 2009, National Legislation and overall EARF.
- 70. SC to endorse and UWSCG to approve SSEMPs for Godogani Reservoir (July 2016)
- **71.** The following SSEMPs should be prepared and updated under the URE-01 Project: SSEMP for Reservoir #1 should be updated, and new SSEMP for Reservoir #3 to be developed (September 2016).
- **72.** Conduct monitoring of environmental quality under Kut-01, Ure-01 and Ure-02 projects at each construction site in with particular reference to dust, noise and vibration. The specific plan for measurement is as follows:

Table 9: Conduct monitoring of environmental quality under Kut-01, Ure-01 and Ure-02 projects at each site

Parameters	Quarterly measurement
Dust	September 2016
Vibration	September 2016
Carbon monoxide	September 2016
Nitrogen dioxide	September 2016
Sulfur dioxide	September 2016
Noise	September 2016

Kutaisi Water Supply Project

Monitoring measurements under Contract No: P43405-ICB-KUT-01

27.06.2016.

	-	77	7	co	<u></u>	П		s		
Measurement	Muxrani	Reservoir	Agmashenebeli	Street	lavisuplebis	IV Turn	Nafetvaridze	street	Nutssubidee	
COOL	42º13i46.04"N	42º41i11.57"E	42°15'40.09"N	42º41 ³ 32.21 ¹¹ E	42º15i49.90"N	42°41°04.8811E	42º15'36.96"N	42°41°05.17"E	42º15/37.43"N	THE CALLERY
Standard Mg/m3	0.5									
Result	≥ 0.1		≥ 0.1		≥ 0.1		≥ 0.1		≥ 0.1	
Standard Mg H	5.0									
Result	0,3		0.3		0.9		0.5		0.9	
Standard Mg/H	0.2									
Result	≥ 0.01		0.02		0.03		0.02		0.02	
Standard M	0.5									
Result	0.1		0.3		0.3		0.2		0.3	
Standard &	72									
Result	52		68		65		68		70	
Standard Mr/h	30									
Result	12		12		13		12		12	
Standard m/sec ² Result	4.0									
Result 0	0.04		2.24		3.44		3.37		3.46	

Irakli Kaviladze

IRCA Register Principal Auditor O=of EMS Systems

Eco-Spectri Ltd

სამართველოს გარემოსა და ბუნებრივი რესურსების დაცვის სამინისტრო MINISTRY OF ENVIRONMENT AND NATURAL RESOURCES PROTECTION OF GEORGIA



<u>გარემოს ეროვნული სააგენტო</u> NATIONAL ENVIRONMENTAL AGENCY

Nº 12/1-628

05 04 20166

შპს "ლუდვიგ პფაიფერ ჰოხ უნდ ტიფბაუ და კო.კგ-ის წამომადგენლობა საქართველოში"-ს

დირექტორს გ-ნ გიორგი ჟვანიას

ბატონო გიორგი,

საქართველოსგარემოსა და ბუნებრივი რესურსების დაცვის სამინისტროს ს.ს.ი.პ "გარემოს ეროვნულ სააგენტო"-სა და შპს "ლუდვიგ პფაიფერ ჰოხ უნდ ტიფბაუ დაკო.კგ-ის წარმომადგენლობა საქართველოში"-ს შორის 2016 წლის 27 ივნისს გაფორმებული ფასიანი მომსახურების შესახებ ფმ-3/587 ხელშეკრულების თანახმად, გაწვდით დაბა ანაკლიასა და დაბა ურეკში, თქვენს მიერ მითითებულ ატმოსფერული ჰაერის სამ წერტილში - ხმაურის, ნახშირის დიოქსიდის, აზოტის დიოქსიდის, მტვერისა და გოგირდის დიოქსიდის შემცველობის გაზომვის შედეგებს ქართულ და ინგლისურ ენაზე.

დანართი: 2 გვ.

პატივისცემით,

სააგენტოს უფროსი

თამარ გაგრატია

დ. აღმაშმნებლის გამზ. 150, 0112, თბილისი, სათართველო 150 D. AGMASHENEBELI AVE, 0112, TBILISI, GEROGIA



Tel.: +995 32 2439502 FAX: +995 32 2439503 E-mail: info@meteo.gov.ge Web: www. meteo.gov.ge

ინფორმაცია

ატმოსფერულ ჰაერში დამაბინმურებელ ინგრედიენტთა კონცენტრაციის შესახეზ შპს "ფაიფერი" 02 ივლისი 2016

სინჯის აღების ადგილი,კორდინატები	ხმაური, დგ	მტვერი, მგ/მ³	გოგირდის დიოქსიდი, მჯ/მ³	აზოტის დიოქსიდი, მგ/მ³	ნახშირჟანგი, მგ/მ³
ანაკლია X 0713640 Y 4697365	54,2	0.085	<0.1	0.001	0.31
საწარმოს ტერიტორია X 0714137 Y 4697757	52.4	0.022	<0.1	<0.001	0.25
ურეკი X 0730237 Y 4650518	63,7	0.048	<0.1	0.009	0.45

შემსრულებლები:

მთავარი სპეციალისტი მთავარი სპეციალისტი უფროსი სპეციალისტი

შეთანხმებულია:

გარემოს დაბინძურების მონიტორინგის დეპარტამენტის უფროსის მოვალეობის შემსრულებელი

ო. ყენია

ს. ხაცავა

გ. ხაჩიშვილი

თ. მაღლაკელიძე

Concentration of harmful substances in atmospheric

02.07.2016

		Concentration mg/m ³				
Samplin place coordinates	Noise DB	Dust	Sulfur dioxide SO ₂	Nitrogen dioxide NO ₂	Carbon oxide CO	
Anaklia X 0713640 Y 4697365	54,2	0.085	<0.1	0.001	0.31	
Enterprise area Anaklia X 0714137 Y 4697757	52.4	0.022	<0.1	<0.001	0.25	
Ureki X 0730237 Y 4650518	63,7	0.048	<0.1	0.009	0.45	

Executors:

Main specialist Main specialist Senior specialist

Agreed:

Acting Head Environmental Pollution Monitoring Department O. Kenia S.Khatsava G. Khachishvili

T.Maglakelidze

ANNEX B: PROJECT PHOTOS

KUT - 01







Ure-01



Ure-02: WWTP project site





ANNEX C: NON-COMPLIANCE NOTICES

NON-COMPLIANCE NOTICE (21.04.2016 - 31.05.16) - KUT-01-01

Non-Compliance Notice

Project: USIIP	
Contract No: KUT-01	Non-compliance Notice
Contractor: SMK	KUTAISI
Reference:	
Kutaisi – NETWORK	

This notice is to advice you, the prime Contractor, on the referenced Contract, of the following notice on health, safety and environmental measures to be implemented **urgently.**

NON-COMPLIANCE IN KUTAISI

NETWORK

- Install safety signs, tapes around to all open tranches and flagmen should be allocated for traffic control
- In case of manual operation by men force, tranches with deep excavation (>1.5m) should be stabilized to avoid accidents during construction process
- All construction materials should be properly segregated and stored adequately to avoid disturbance of residents and businesses (waste and some construction materials should be removed from gates of residential houses)
- Noise and Dust emission should be managed and mitigated adequately (including instrumental measurement)











All these conditions have to be remedied within two days (by the end of 5 May 2016) by the prime Contractor (SMK).

Date of site visits: 21.04.2016	

Ketevan Chomakhidze – USIIP UWSCG	
Maka Goderdzishvili - UWSCG	
Irakli Legashvili - Eptisa	

Non-Compliance Notice

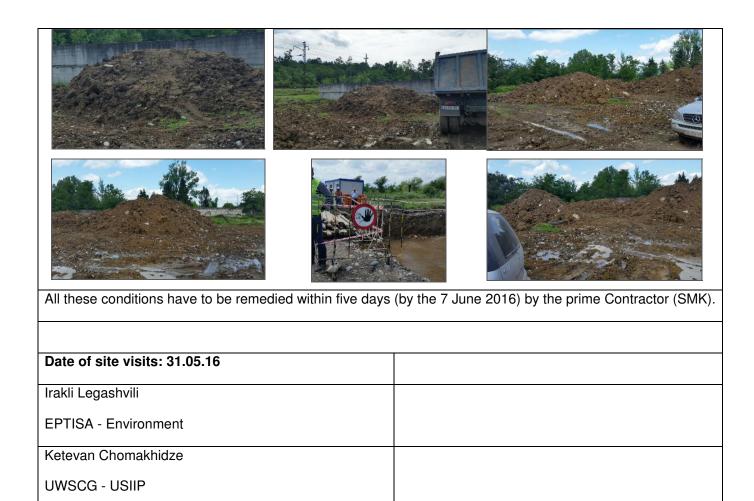
Project: USIIP	
Contract No: KUT-01	Non-compliance Notice
Contractor: SMK	KUTAISI
Reference:	
Kutaisi – MUKHNARI RESERVOIR	
This notice is to advice you, the prime Contractor, on the referenced C	ontract, of the following notice on

health, safety and environmental measures to be implemented **urgently.**

NON-COMPLIANCE IN KUTAISI

Mukhnari Reservoir

- Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil should be taken away for its final disposal (in agreement with municipality). Also it should be noted that temporary stockpiling of surplus/waste soil out of construction site boundaries needs agreement with municipality
- The pile of topsoil should be stored properly inside the construction territory (on the territory indicated in site plan) with further maintenance procedures i.e. regular watering
- Site trees should be properly protected with dedicated fencing to avoid its damage
- The access road should be arranged properly and covered by gravel
- Relevant and enough warning/safety and information signs should be installed at the entrance and perimeter of the site
- Safety signs/tapes and trench side barriers around of ditch of reservoir should be installed
- All construction materials should be properly segregated and stored adequately at the site
- Parking area with relevant sign should be arranged in accordance with the site plan
- Proper Household and Hazardous Waste containers should be installed with relevant signs
- Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site
- All workers (even personnel of subcontractor) should be equipped with complete PPE
- Site internally should be arranged properly and cleaned regularly
- Environmental specialist of contractor should be attended permanently during construction works at the territory
- Environmental documents (SSEMP, IEE) should be available at the site



NON-COMPLIANCE NOTICE (22 February, 2016) – Ure-02

Maka Goderdzishvili

UWSCG - Head of Environment

Non-Compliance Notice

Project: USIIP	
Contract No: URE-02	Non-compliance Notice
Contractor: PFIEFFER	UREKI
Reference:	
UREKI – WWTP SITE	
This notice is to advice you, the prime Contractor, on the referenced Cont	ract, of the following notice on health

This notice is to advice you, the prime Contractor, on the referenced Contract, of the following notice on health, safety and environmental measures to be implemented **urgently.**

NON-COMPLIANCE IN UREKI

UREKI WWTP SITE

- Construction area should be fenced from all sides, since there are cases of cattle entering the site
- Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil (that seems huge amount) should be taken away for its final disposal (in agreement with municipality)
- Permanent on-site Environmental specialist of contractor should be appointed URGENTLY!
- The pile of topsoil should be watered regularly
- Relevant information signs should be installed inside of the site for each facility
- Safety signs/tapes and relevant trench side barriers around of deep ditch should be installed
- Tarpaulins cover during materials transportation should be used always
- All construction materials should be properly segregated and stored adequately
- Proper place for Parking with relevant sign should be allocated and arranged. Current allocation is NOT relevant and enough for serving of all vehicles
- Fuel/lubricant containers should be stored properly in special place with roofing and concrete platform
- All equipment & vehicles used for construction activity should be in good condition (non-leaking) and well
 maintained. Old bulldozer operating at the site should be monitored routinely and driver trained for first
 response in case of oil spill
- Dust prevention activities (watering of territory) should be carried out on regular basis (dry season arrived!)
- All workers (even personnel of subcontractor) should be equipped with complete PPE
- Site should be lightened at night time

















NON-COMPLIANCE NOTICE (22 February, 2016) – Ure-01

Non-Compliance Notice

Project: USIIP	
Contract No: URE-01	Non-compliance Notice
Contractor: PERI	ÜREKI
k; Pumping Station	

This notice is to advice you, the prime Contractor, on the referenced Contract, of the following notice on health, safety and environmental measures to be implemented **urgently.**

NON-COMPLIANCE IN UREKI

NETWOR

Construction materials should be brought when needed to avoid its long time disposal in the streets (to

be improved immediately)



Tarpaulins cover during materials transportation should be used Materials for refilling of tranches should be brought to the site when refilling is to start







PUMPING STATION

Construction area should be fenced with metal net material from all sides with proper lockable gate Proper safety and information signs should be installed at the entrance and perimeter of the site All trees at the construction area should be protected to avoid its damage

Proper household and hazardous waste container with relevant sign and cover should be installed Oil spill elimination items should be installed

All workers should be equipped with complete PPE









All these conditions have to be remedied within three days (by the 22 February 2016) by the prime Contractor (Peri).

Date of site visits: 17-18.02.16	
Irakli Legashvili	
EPTISA - Environment	

ANNEX D: IMPLEMENTATION REPORT ON THE ENVIRONMENTAL IMPACT ASSESSMENT (EIA) /INITIAL ENVIRONMENTAL EXAMINATION (IEE) MITIGATION REQUIREMENTS:

Reference	Requirement	Action to date	Action required/comment
Kut-01			
	Install safety signs, tapes around to all open tranches and flagmen should be allocated for traffic control	Partially completed	Despite of the numerous instructions given by SC and UWSCG this requirement needs to be improved
	In case of manual operation by men force, tranches with deep excavation (>1.5m) should be stabilized to avoid accidents during construction process	Partially completed	Despite of numerous instructions given by EMSs of SC and UWSCG this requirement needs to be improved
	All construction materials should be properly segregated and stored adequately to avoid disturbance of residents and businesses (waste and some construction materials should be removed from gates of residential houses)	Partially completed	Despite of numerous instructions given by EMSs of SC and UWSCG and issues non-compliance notes this requirement needs to be improved
	Noise and Dust emission should be managed and mitigated adequately (including instrumental measurement)	Partially completed	Despite of numerous instructions given by EMSs of SC and UWSCG this requirement needs to be improved
	Mukhrani Reservoir		
	Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil should be taken away for its final disposal (in agreement with municipality). Also it should be noted that temporary stockpiling of surplus/waste soil out of construction site boundaries needs agreement with municipality	Not Completed	Needs improvement
	The pile of topsoil should be stored properly inside the construction territory (on the territory indicated in site plan) with further maintenance procedures i.e. regular watering	Not Completed	Despite of numerous instructions given by EMSs of SC and UWSCG sometimes non-hazardous waste is not removed timely
	Site trees should be properly protected with dedicated fencing to avoid its damage	Completed	
	The access road should be arranged properly and covered by gravel	Not Completed	Needs improvement
	Relevant and enough warning/safety and information signs should be installed at the entrance and perimeter of the site		Needs improvement
	Parking area with relevant sign should be arranged in accordance with the site plan	Partially Completed	
	Proper Household and Hazardous Waste containers should be installed with relevant signs	Completed	
	Proper fuel/oil spill response items (sand, sawdust, special containers) should be available at the site	Partially Completed	Needs immediate improvement
	All workers (even personnel of	Completed	

	subsentractor) should be equipped with		
	subcontractor) should be equipped with complete PPE		
	Site internally should be arranged properly and cleaned regularly	Partially Completed	Needs to be done regularly
	Environmental specialist of contractor should be attended permanently during construction works at the territory	Completed	
	Environmental documents (SSEMP, IEE) should be available at the site	Completed	
Ure-01			
	Construction materials should be brought when needed to avoid its long time disposal in the streets	Not completed	Despite of the numerous instructions given by SC and UWSCG
	Tarpaulins cover during materials transportation should be used	Partially Completed	To improve the standard is required
	Materials for refilling of tranches should be brought to the site when refilling is to start	Partially completed	To improve the standard is required
Ure-02			
	Construction area should be fenced from all sides, since there are cases of cattle entering the site	Completed	No additional actions are required
	Surplus/accumulated soil should be stockpiled properly if it is needed for further construction purposes, and any excess left over of waste soil (that seems huge amount) should be taken away for its final disposal (in agreement with municipality)	Partially Completed	To improve the standard is required
	Permanent on-site Environmental specialist of contractor should be appointed	Completed	No additional steps are required
	The pile of topsoil should be watered regularly	Not Completed	To improve the standard is required
	Relevant information signs should be installed inside of the site for each facility	Completed	
	Tarpaulins cover during materials transportation should be used always	Partially Completed	
	All construction materials should be properly segregated and stored adequately	Completed	
	Proper place for Parking with relevant sign should be allocated and arranged. Current allocation is NOT relevant and enough for serving of all vehicles	Completed	
	Fuel/lubricant containers should be stored properly in special place with roofing and concrete platform	Completed	
	All equipment & vehicles used for construction activity should be in good condition (non-leaking) and well maintained. Old bulldozer operating at the site should be monitored routinely and driver trained for first response in case of oil spill	Completed	

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ANNEX E: Detailed Procedures for GRM System Implementation

Grievance redresses mechanism (GRM)

- 73. Any affected person can apply at a UWSCG local service centre through different ways, either by going to the service centre, sending a letter to the service centre, or calling a hotline. The operators of the service centre can respond by going directly to the affected person if they are disabled to get the written grievance from them. As it was mentioned above the GRM in Kutaisi has been operational since April 2014, and the system operates in three stages.
- 74. During the first stage, complaints are discussed within two weeks of being received by the local service centre of UWSCG (e.g. Kutaisi office), based on the verbal or written complaint. In the first stage of grievance review and resolution, an authorized representative of the local service centre is responsible for ensuring the registration of the claim and its further processing. He/she engages in the grievance review and resolution process representatives (managers and environmental specialists) of Construction and Supervision Companies, and the representatives of UWSCG central office as required. At the local service centre, the affected person is provided with a queue number and then registers the grievance at the service desk.
- 75. The service centre operators, who are trained1 in USIIP/Reg-01project, register all relevant grievances with support of an online task management system, which tracks information on the grievance review process and the responsible person. Moreover, the operators fill the ADB complaints log with the registered grievance that coincides with local internal forms. This electronic intranet system2 allows the UWSCG Tbilisi Office to immediately see claims. Therefore, claims submitted to any regional service centre can be monitored by the Head of the Investment Projects Management Office (IPMO), as well as the Head of the Environmental and Resettlement Division, Maka Goderdzishvili.
- **76.** When a grievance is solved positively in the first stage, the grievance is closed through an Agreement Protocol, which is reflected in the eDocument Task Management System.
- 77. The grievance enters a second stage if it is not solved. In that case, the authorized representative of the local service centre will help the claimant prepare a package of grievance application documents for official submission to the Grievance Redress Committee (GRC). The package contains the following information:
- Name, ID, address and contact details of the claimant
- Description of the essence of the complaint
- Supporting documents and evidences (photos, maps, drawings/sketches, conclusion of experts or any other documents confirming the claim)
- Brief description of the actions proposed for the grievance resolution at the first stage and the reasons why these actions were denied
- Minutes of meetings conducted at the first stage
- 78. The GRC should make a decision within two weeks after the registration of the grievance. The GRC is staffed as follows: (i) Representative of self-government the head of committee; (ii) 99. Director/ Manager of UWSCG service centre; (iii) Investments Project Management Division representative of the company; (iv) Representative of local authoritative NGO (according to the claim reference); (v) Stakeholders' female

¹ UWSCG and Supervision Consultant (Eptisa) conducted trainings for service center operators covering general procedures of GRM functioning in order to ensure proper coordination of different departments.

²The **eDocument - Task Management System** was developed by LEPL Financial-Analytical Service of the Ministry of Finance of Georgia. It is an innovative electronic document and task management mechanism for electronically processing of documents. Used by almost all the major budgetary organizations in Georgia, the eDocumentservice offers an opportunity to manage, find, and track documents for information-intensive organizations.

- representative;(vi) Stakeholders' informal representative; and (vii) Heads of local municipalities.
- 79. The GRC will review the package of grievance documents, set a date for a meeting with the claimant, discuss the claim at the meeting, and set up a plan for further actions (actions, responsible persons, schedule etc.). Upon the resolution of the case, the GRC will prepare a brief resume and protocol and the protocol signed by complainant and all parties will be registered in a grievance log.
- **80.** There is a third stage in case there is a failure to resolve the grievance. In this case, GRC will help the claimant to prepare the documents for submission to the Rayon (municipal) court. They can also apply to ADB at the address below:
 - Complaints Receiving Officer, Accountability Mechanism
 - Asian Development Bank Headquarters
 - 6 ADB Avenue, Mandaluyong City 1550, Philippines
 - Email: amcro@adb.org, Fax +63-2-636-2086